

10/578700

PCT/US04/037850

Attorney's Docket No. 14160-1PCT

IAP12 Rec'd PCT/PTO 09 MAY 2006

## IN THE UNITED STATES RECEIVING OFFICE

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/US04/037850	12 NOV 2004	14 NOV 2003
TITLE OF INVENTION		
CHROMOSOME 5 GENETIC VARIANTS RELATED TO DYSLEXIA		
APPLICANT(S)		
BIOVENTURES, INC.		

Mail Stop PCT  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attn: Stéphane GASPAIS, Authorized Officer

**AMENDMENT UNDER ARTICLE 34**

Dear Sir:

The Applicant hereby requests that the International Preliminary Examining Authority amend the above-identified PCT application by replacing the originally filed sheet 24 of the description with the enclosed substitute sheet 24. The amendment to the description is being made to correct a minor typographical error as follows:

Page 24, line 34, "(5, 6, 7, 8, 9, 10, 11)" was replaced with "(1, 2, 3, 4, 5, 6, 7)".

**REMARKS**

The amendment to the above-identified PCT application is merely to correct a typographical error in the number sequence of the seven estimated 12 loci haplotypes, so that they correspond with the numbers given in Table 5, immediately above. No new matter is added by this amendment. Entry of this amendment is hereby requested.

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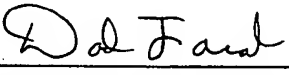
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No. 19-2090.

Respectfully submitted,

Date: March 15, 2005

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to the website file format. Table 4 shows a haplotype description of the 12 SNAJA loci based on the sequence listing for SNAJA, SEQ ID NO:1. Table 7 shows the results of the SNAJA Haplotype estimation frequencies for dyslexic and non-dyslexic sample set, where 1 represents the wild type and 2 represents the positional variant.

TABLE 4

## Haplotype Description of 12 SNAJA Loci Based

LOCUS	1	2	3	4	5	6	7	8	9	10	11	12
POSITION/ CHANGE	A424C	C554A	A879T	C985A	G1145A	C1346T	A2275G	A2286C	G2314A	C2453T	G2613A	T3282G
HAPLOTYPE WILD TYPE CODE	1	1	1	1	1	1	1	1	1	1	1	1
HAPLOTYPE VARIANT CODE	2	2	2	2	2	2	2	2	2	2	2	2

TABLE 5

## Results of SNAJA Haplotype Estimation Frequencies

HAPLOTYPE	ESTIMATED 12 LOCI HAPLOTYPE	DYSLEXIC SAMPLES	NON-DYSLEXIC SAMPLES	GENERAL POPULATION SAMPLES
A	221112112121	0.295	0.250	0.241
B	111111111111	0.217	0.275	0.297
C	222112112121	0.200	0.275	0.300
D	111121111122	0.170	0.175	0.162
1	112111111121	0.083	0.000	0.000
2	221112122121	0.050	0.000	0.000
3	111121111121	0.061	0.000	0.000
4	221112112122	0.061	0.000	0.000
5	222112112122	0.050	0.000	0.000
6	112111111111	0.083	0.000	0.000
7	111111211121	0.050	0.000	0.000
E	112121211122	0.000	0.050	0.000

The finding that seven estimated 12 loci haplotypes (1, 2, 3, 4, 5, 6, 7) occurred in only the dyslexic population indicates that these haplotypes are associated with the risk of exhibiting dyslexia phenotypes, and that a variant form or forms of SNAJA is involved in the occurrence of dyslexia or is in linkage disequilibrium with another nearby genetic element contributing to dyslexia. The combined frequency for these dyslexic-associated haplotypes

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27 April 2005

***Urgent!***

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The World Intellectual Property Organization  
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SWITZERLAND

**CONFIRMED COPY**

Attention: PCT Receiving Office

Re: Request for Recording of Change in PCT Application under Rule 92bis  
PCT Patent Application No. PCT/US2004/037850  
For: CHROMOSOME 5 GENETIC VARIANTS RELATED TO DYSLEXIA  
International Filing Date: 12 November 2004  
Priority Date: 14 November 2003  
Applicant: BioVentures, Inc.  
Sheldon & Mak Docket No. 14160-1PCT

Dear Sirs:

In accordance with Rule 92bis and the United States Receiving Office's recommendation, the Applicant hereby requests a minor typographical change of the application specification on Page 24, Line 34 of the above-identified PCT patent application.

1. Page 24, line 34 contains a minor typographical error of "(5, 6, 7, 8, 9, 10, 11)" that should be "(1, 2, 3, 4, 5, 6, 7)".
2. This change is merely corrects a typographical error in the number sequence of the seven estimated 12 loci haplotypes, so that they correspond with the numbers given in Table 5 of the application.
3. An amended copy of Page 24 of the application specification, containing the typographical correction of Line 34 is attached for your reference.
4. Applicant respectfully requests that this change be reflected in the published PCT application. Applicant understands that the publication of the application generally occurs 16 months from the priority date which in this case should have occurred in late March 2005. Applicant has conducted a search of the PCT Gazette records and has determined that the application

Request for Recording of Change in PCT Application under Rule 92bis  
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does not appear to have been published as of today's date, 27 April 2005. It is the Applicant's hope that the International Bureau can effect this change prior to the publication of the application.

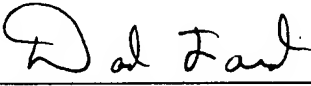
5. An Article 34 Amendment was initially submitted with the PCT Demand on 15 March 2005, to correct this typographical error. The Applicant has been advised by the United States Receiving Office that any amendments submitted in an Article 34 amendment will not be incorporated into the published application. The United States Receiving Office suggests that this change be requested under Rule 92bis. A copy of this Article 34 Amendment and the PCT Demand are attached for your reference.

This change does not in any way affect the substance of the application or comprise new matter.

No fee is believed due in connection with this communication. However, if any fee is due, please notify the undersigned so that payment arrangements can be made.

Respectfully submitted,

Date: 27 April 2005

By:   
David A. Farah, M.D.

DAF/dmg

Enclosures: Copy of replacement Page 24 of the application specification  
Copy of Article 34 Amendment  
Copy of PCT Demand

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**Certificate of Facsimile and Email Transmission**  
I hereby certify that this correspondence is being transmitted by facsimile and email to The World Intellectual Property Organization on 27 April 2005.

By:   
Deborah Grafe